

## Patent Abstracts of Japan

PUBLICATION NUMBER : 01268296  
PUBLICATION DATE : 25-10-89

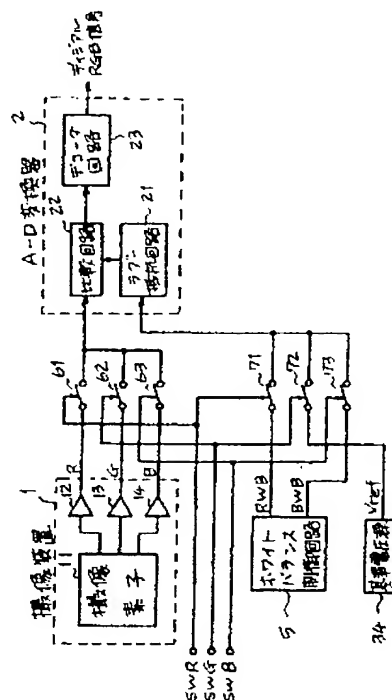
APPLICATION DATE : 19-04-88  
APPLICATION NUMBER : 63097431

APPLICANT : CANON INC;

INVENTOR : TAKAYAMA TSUTOMU;

INT.CL. : H04N 11/04 H03M 1/18 H04N 1/40  
H04N 9/73

TITLE : A-D CONVERTER



ABSTRACT : PURPOSE: To attain A-D conversion with completely same quantizing accuracy concerning respective R, G and B signals by providing a means to A-D convert the output signal of an image pickup device with one system of an A-D converter and to switch the full scale range of the A-D converter in correspondence to the A-D converted signal.

CONSTITUTION: The respective R, G and B signals to be outputted from an image pickup device 1 are switched by switches 61 to 63 according to the picture element arrangement of an image pickup element 11 and multiplexed to one system of the signal with time-sharing. After that, the signals are supplied to a comparing circuit 22 of an A-D converter 2. When the R signal is supplied to the comparing circuit 22, a white balance control voltage RWB is supplied to a rudder resisting circuit 21 and when the G signal is supplied to the comparing circuit 22, a reference voltage Vref is supplied to the rudder resisting circuit 21. Then, when the B signal is supplied to the comparing circuit 22, a white balance control voltage BWB is supplied to the rudder resisting circuit 21. Thus, the respective signals are A-D converted with the respectively suitable full scale range and the A-D conversion can be executed with the completely same quantizing accuracy concerning the respective R, G and B signals.

COPYRIGHT: (C)1989,JPO&Japio

